

Session 1: Inspection at regular intervals – Inspection of new equipment (TWG 1)

Inspection of brand new sprayer by a sprayer manufacturer and problems encountered

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DOI 10.5073/jka.2015.449.0004

Following the amendment 2009/127/EG to the Machinery Directive 2006/42/EG, all new manufactured sprayers in the European Union are self-certified by the producer. This means from the 15.12.2011 new sprayers in the EU are not longer subject to any approval procedure by an inspection authority. The producers are engaged to certify their plant protection machinery through the CE marking and a declaration of conformity by themselves. This ensures that every delivered machinery in the EU fulfills the requirements of new plant protection machinery in the market by 2006/42/EG and 2009/127/EG. This self-certification relieves the declaration procedure by third party authorities and is controlled through the market surveillance in the countries. The BBA (later JKI) declaration procedure in Germany was a successful system to bring a technical standard to new machinery in the market. From July 1988, every different component of new machines in Germany had to be declared by the manufacturer. This declaration contained for example tanks, armature, spray boom, pumps, etc. Every addition or change in the design had to be updated in the declaration. From the perspective of a manufacturer there is no significant change due to the self-declaration in internal processes. The producer is responsible with a legally binding signed certification for the technical standard of new machinery. In the past it was done by the BBA declaration and is today verified by the CE marking which confirms EN ISO 16119. The CE marking is significant for the complete European Union and therefore no specific machine configuration has to be declared anymore.



Amazonen Product Certification including EN ISO 16119 and EN ISO 4254



Inspection of used sprayers in Germany since 01.07.1993

In addition to the manufacturer declaration that all technical components on the new machine fulfill the requirements of EN ISO 16119, used sprayers have to be inspected periodically by the specifications of EN ISO 16122 regarding 2009/128/EG. The initiation for a periodical inspection for used sprayers started in Germany in July 1993. With the beginning of the mandatory inspection of used sprayers, customers demanded complete tested new machines directly from factory. So they are assured to get a “Ready-to-use” machine directly from factory and have no additional efforts before the first use. Many manufactures offer this first control from factory together with the delivery of the new sprayer.

All these directives on the European Union level are to harmonize the standards transnational and each Member State is required to implement them into national regulations. The current situation reveals a still not consistent implementation of the changes in European directives to national laws. The international orientation in many cases to the BBA (JKI) declaration procedure does not exist furthermore. The implementation of actual directives and also the control if the included demands a fulfilled is often insufficient. This causes disordered processes in the handling with new machinery for manufactures, national distribution partners and furthermore for the customers.



Inspection of cross distribution on test bench according EN ISO 16122



Quality control of each machine in production

Independently from the demands of EN ISO 16119 is the continuous quality control with a final test of each sprayer a standard procedure for a reliable product. The Amazonen Werke quality control exemplary includes the test of incoming parts and internal manufactured components. Continues controls during the assembling and regular machinery-audits ensure a constantly high and transparent quality standard. Independently from an optional inspection according to EN ISO 16122, every machine gets a final quality test with a test run under pressure with water. A detailed control of the functionality and reached parameters of all components, the right calibration of the complete system and the expertise of optical details and appearance ensures that each delivered machine works proper and sustainable from the first use over long time.